

The logo icon for ELabELN, consisting of a blue square with rounded corners containing three horizontal orange lines, with an orange document icon overlapping its top right corner.

ELabELN

Solution Guide



www.lablynx.com



Choosing an ELN Solution For Your Lab

Electronic Lab Notebooks (ELNs) are transforming the way laboratories operate, offering benefits in data management and collaboration. While **all labs** can benefit from ELNs, research-intensive and collaborative environments stand to gain the most. By adopting an ELN tailored to their specific needs and workflows, with the added benefit of complementary apps, labs can **unlock new levels of efficiency**, accuracy, and innovation. Investing in the right functionality—such as robust security, integration capabilities, and user-friendly interfaces—ensures that the technology delivers its full potential, empowering researchers to focus on what they do best: **advancing science**.

A Laboratory Information Management System (LIMS) and an ELN serve **distinct purposes** in laboratory environments. While LabLynx offers both LIMS and ELN solutions and there is some functional overlap, an ELN is generally a better choice for documenting experiments and facilitating collaboration on research projects.



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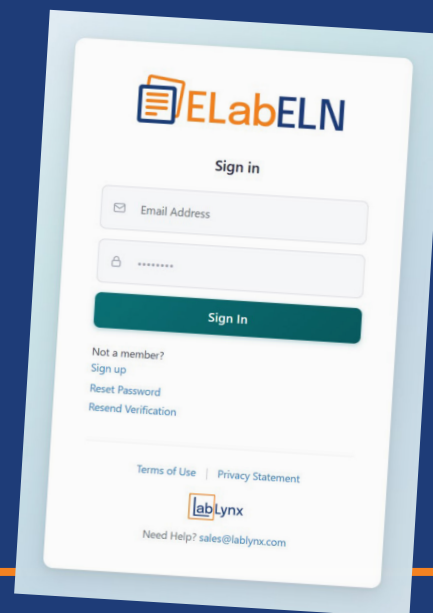
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What is the LabLynx ELabELN Solution?

The LabLynx ELabELN Solution uniquely delivers best-in-class ELN functionality—and more—making it simply the most comprehensive solution you can get for your research or startup lab. It consists of both open and proprietary applications that are seamlessly integrated, providing configurability and extensibility so you can implement the solution that fits your lab's exacting needs.



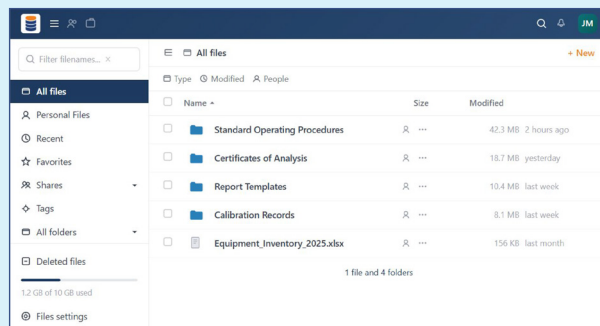
1 All-in-one Functionality

- **Structured Data Entry:** Organize data into projects, experiments, and tasks hierarchically.
- **Template Management:** Create, store, and reuse experimental protocols. Access or create libraries of reusable templates for common workflows.
- **Rich Text Editing:** Format text, include images, tables, and file attachments.
- **Electronic Signatures:** Authenticate entries with digital signatures.
- **Change Control:** Track changes to documents.
- **Cross-Referencing Entries:** Link related entries for easy navigation.

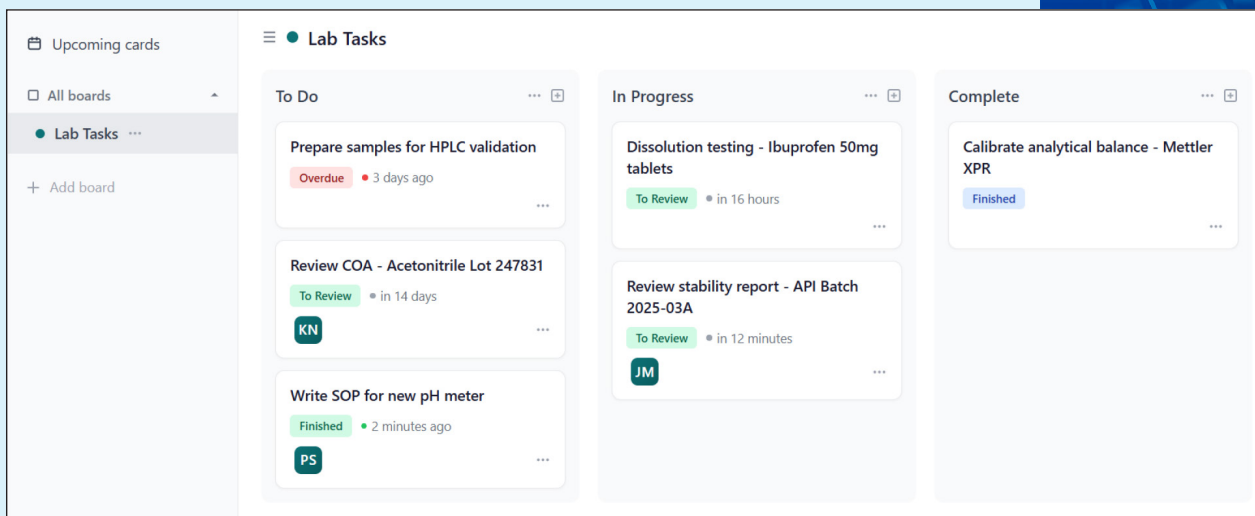
2 Collaboration and Sharing

- **Collaboration:** Multiple users can work on the same entry or document simultaneously in LabDrive.
- **Access Control and Permissions:** Customize roles and access levels for different team members.
- **Commenting and Feedback:** Comment on specific entries for team discussions.
- **Project Sharing:** Share projects with internal or external collaborators via LabDrive.

*Screenshot of
the LabDrive File
Management portal.*



Screenshot of LabDrive Kanban Board



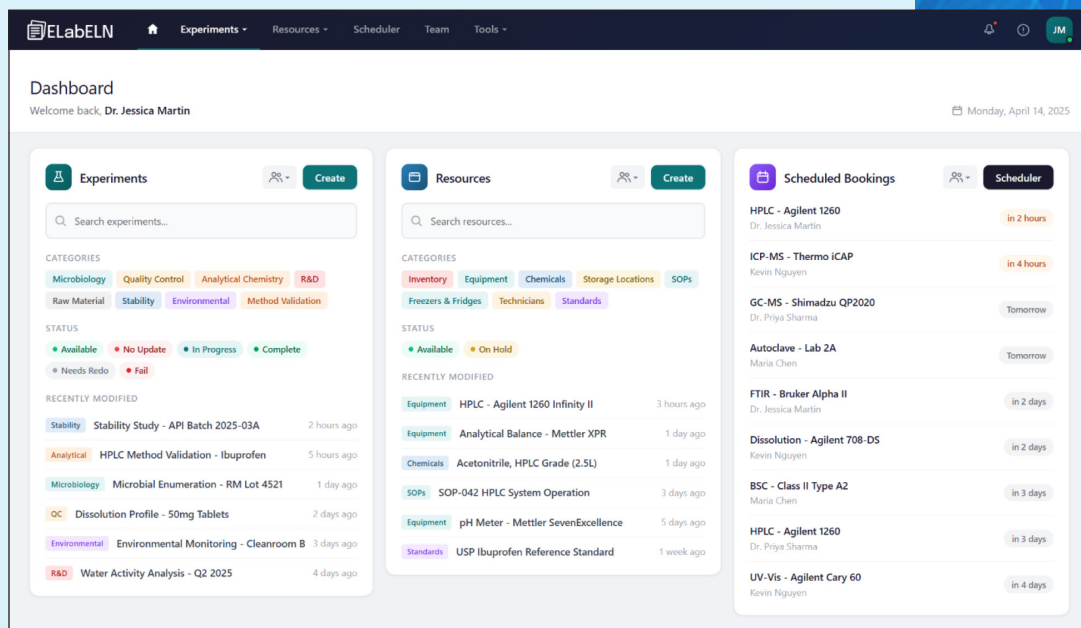
User Experience and Accessibility

- **Customizable Dashboard:** Personalized dashboard for quick access to important information.
- **Mobile and Tablet Support:** Access the platform on mobile devices.
- **Customizable Templates:** Adapt forms and workflows to suit your specific lab needs.
- **Search Filters:** Use advanced filters to narrow search results.

Workflow and Task Management

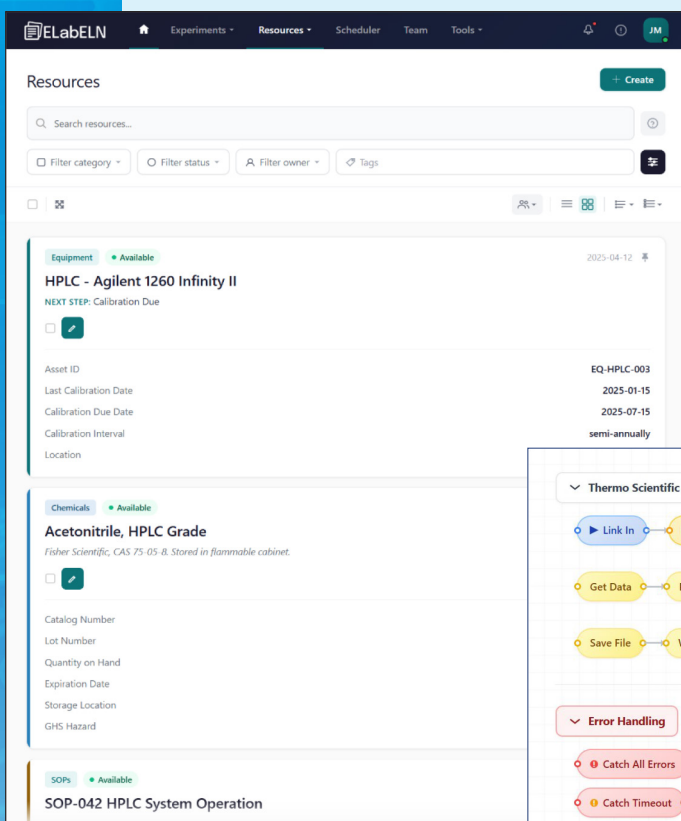
- **Task Assignment and Progress Tracking:** Assign tasks to team members and monitor the progress of individual tasks via LabDrive.
- **Kanban Boards:** Visualize workflows using Kanban boards via LabDrive.
- **Workflow Templates:** Create and reuse templates for workflows.
- **Milestone Management:** Set and track project milestones.
- **Time Tracking:** Log time spent on tasks or experiments.

Screenshot of the ELN dashboard



Inventory and Sample Management

- **Inventory Management:** Manage stocks of reagents, samples, and consumables.
- **Barcode/QR Code Integration:** Generate and scan barcodes or QR codes for items.
- **Storage Documentation:** Identify the exact storage location of samples or reagents.
- **Expiry Documentation:** Identify expiration dates to avoid using expired items.
- **Custom Fields:** Add custom fields to inventory items for specific attributes.
- **Supplier Documentation:** Store supplier information for reagents and equipment.



Integration and Automation

- **Flow-Based Programming:** Utilize LabVia visual tool for wiring together devices, APIs, and services.
- **Workflow Automation:** Automate repetitive tasks using LabVia's event-driven architecture.
- **File Collaboration:** Implement LabDrive platform for file sharing and collaboration.
- **Office Suite Integration:** Integrated office suite for document editing and co-authoring within LabDrive.
- **Secure File Sharing:** Share files securely with flexible permissions and link protection in LabDrive.
- **Visual Report Designer:** Use the LabVista design tools to create interactive reports.
- **Data Binding:** Bind data from various sources to reports in LabVista.
- **Export Formats:** Export reports to multiple formats, including PDF, Excel, and Word, using LabVista.
- **Report Scripting:** Implement custom logic in reports through scripting in LabVista.
- **Interactive Dashboards:** Create interactive dashboards for data visualization in LabVista.



Screenshots of the ELN Resources List (above) and LabVia (right).

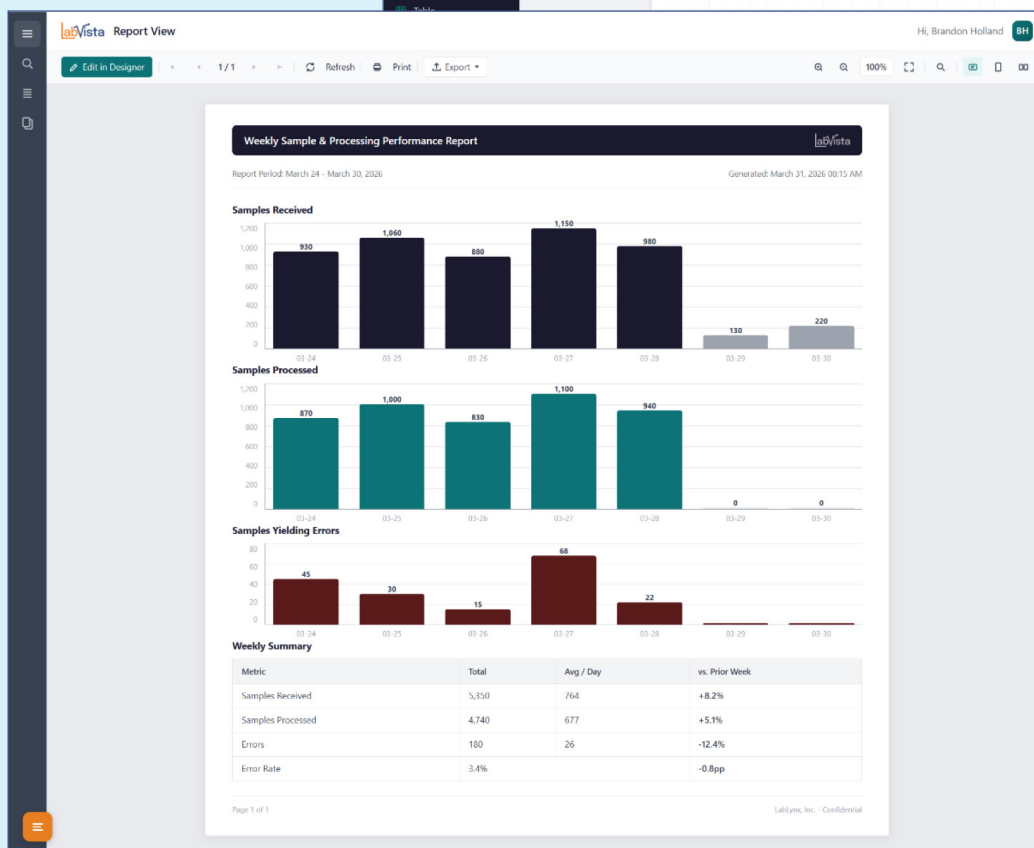
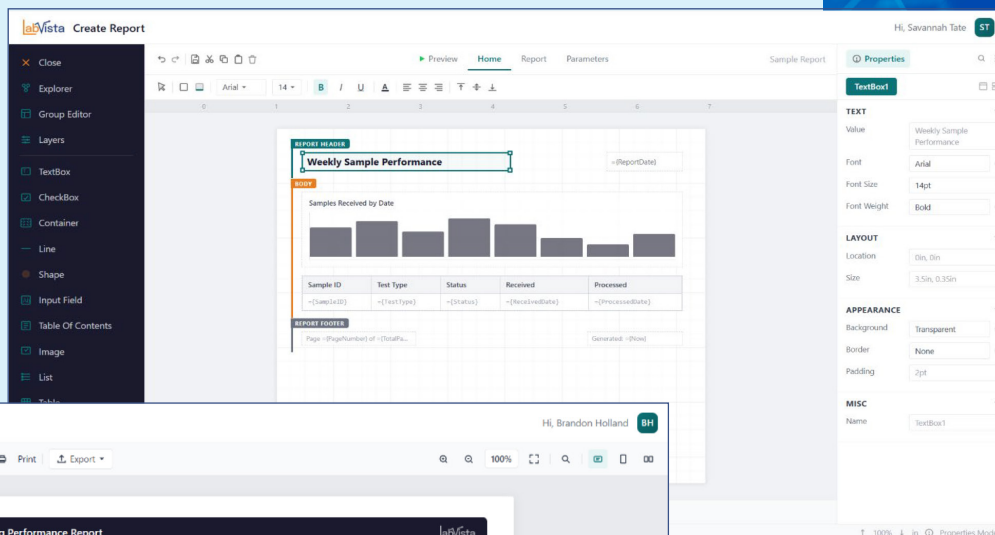
7 Security

- **Data Encryption:** Protect data with encryption both at rest and in transit.
- **User Authentication:** Implement multi-factor authentication for enhanced security.
- **Automated Backups:** Schedule regular backups to prevent data loss.
- **Data Recovery:** Restore data quickly in case of accidental deletion or corruption.
- **IP Protection:** Features to safeguard intellectual property rights.

8 Search and Retrieval

- **Advanced Search:** Search by keywords, tags, dates, or specific metadata.
- **Tagging System:** Use tags for easy categorization and retrieval of entries.
- **Favorites:** Mark important entries or projects as favorites for quick access.
- **Archived Data Access:** Retrieve data from archived or completed projects.

Screenshots of
LabVista Report
Designer.



Data Integration and Analysis

- **APIs for External Integration:** Use APIs to connect with LIMS, ELNs, or other software.
- **ELabELN REST API:** Create, read, update, and delete ELN content.
- **Data Visualization:** Generate charts, graphs, and dashboards for analysis via LabVista.
- **Metadata Management:** Record metadata for experiments, samples, and equipment.
- **Data Export:** Export data in PDF, as well as Excel, and Word using LabVista.
- **Custom Reports:** Generate detailed reports tailored to specific needs via LabVista.

Regulatory Compliance

- **21 CFR Part 11 & Electronic Signatures:** Compliant electronic records, user authentication, secure e-signatures, and audit trails ensure data authenticity, integrity, and traceability.
- **GLP & GMP Alignment:** Configurable workflows and standardized documentation align with regulatory expectations for laboratory and manufacturing environments.
- **ISO 17025, ISO 9001 & ISO 15189 Alignment:** Structured templates, document control, and quality linkages support traceable, audit-ready records.
- **ISO 27001 Information Security:** Supports data confidentiality, integrity, and availability through encryption, IAM/SSO, audit logging, and SOC 3-certified hosting.
- **Security & Privacy Controls:** Encryption in transit and at rest, role-based access, and SSO/IAM through the LabLynx Platform for HIPAA and GDPR compliance.
- **Integrated Quality Framework:** LabLynx combines audit logging, access control, and version-controlled records across all modules (ELN, LabDrive, LabVia, LabVista), ensuring end-to-end quality traceability and reproducibility.

ELN Changelog

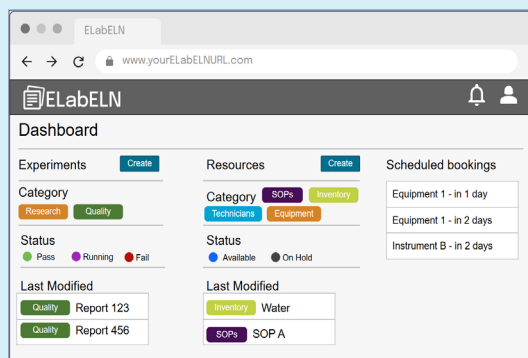
HPLC Method Validation - Ibuprofen			
Go back			
Changelog			
Date	User	Property Changed	New Value
2025-04-14 09:42:18	JM Dr. Jessica Martin	status	In Progress
2025-04-14 09:38:05	JM Dr. Jessica Martin	body	Updated mobile phase composition to 65:35 ACN:Water with 0.1% TFA. See revisions page.
2025-04-13 16:22:41	KN Kevin Nguyen	metadata	Column Type: C18 Reversed Phase (4.6 x 150mm, 5um) Flow Rate: 1.0 mL/min Detection: UV @ 220nm Injection Volume: 10 uL Run Time: 15 min
2025-04-13 14:15:30	KN Kevin Nguyen	metadata	Linearity Range: 10 - 500 ug/mL R-squared: 0.9998 LOD: 0.8 ug/mL LOQ: 2.5 ug/mL

APPLICATIONS *in the*

ELabELN Solution



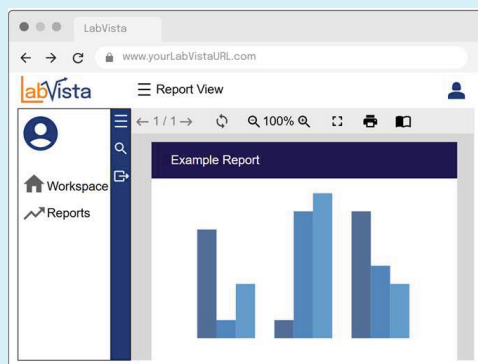
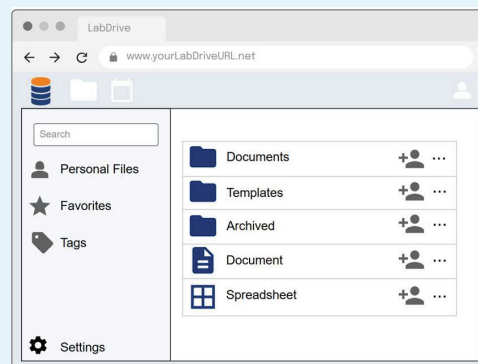
The **LabLynx Platform** is your central user management, Single Sign-on (SSO) and Identity Access Management (IAM) Platform. LabLynx provides secure user access to all of your LabLynx applications and functions. It provides add-on extensions and applications for collaboration, messaging, alerts, dashboards, AI, and much more.



With a comprehensive set of features and functions with the **ELabELN**, combined with configurability and extensibility, and the REST API, it delivers the capability for long-term usage in your research lab or small-throughput lab or startup.



LabDrive synchronizes lab documents, datasets, and research materials across multiple devices seamlessly. Users can access their data from desktops, laptops, and mobile devices (including Windows, macOS, Linux, Android, and iOS) while ensuring that all files remain up to date and synchronized. This is particularly beneficial for labs managing vast amounts of data across different teams and locations.



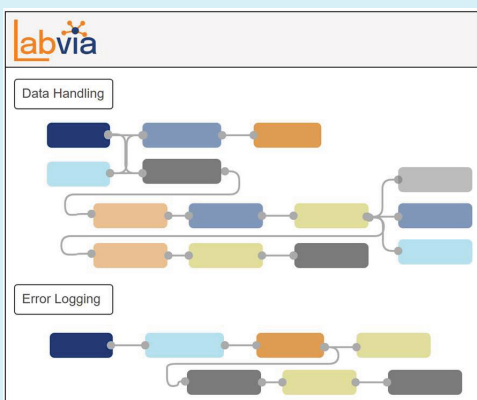
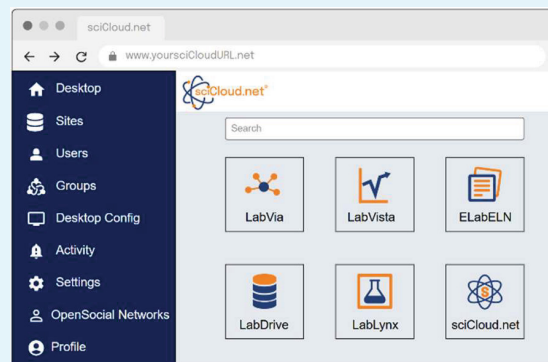
LabVista is the powerful analytics and reporting application in the LabLynx ELabELN Solution, designed to provide actionable insights from laboratory data. By aggregating data from ELabELN, LabVia, LabDrive, and other sources, LabVista empowers laboratories to make informed decisions with ease.

APPLICATIONS *in the*

ELabELN Solution



sciCloud.net is the Cloud Application Platform on which the ELabELN Solution, specific to your laboratory is implemented. sciCloud.net provides the core technology, security and functionality that is common across all types of labs so that the ELabELN Solution specific to your lab can cover the functional lab areas that are important to you.



LabVia can connect to various APIs and databases, facilitating the exchange of data between systems and instruments. It can automate the upload of experimental data to centralized repositories, ensuring traceability and reducing manual entry errors. By leveraging LabVia's connectivity, laboratories can integrate diverse systems into a cohesive data ecosystem.



LabServer is an optional add-on that can be used for local, on-premise deployment of your LabLynx ELabELN Solution, including all relevant applications for your laboratory. Cloud backups can be managed by LabLynx or locally by your team. LabServer can be used as your LabVia hub device for instruments integrations as well.



SERVICE & SUPPORT

LabLynx offers full support, maintenance and warranty, as well as implementation and any ad-hoc training, development and other technical services—all requested, managed and delivered through our **LIMShelp** platform.

What makes the LabLynx ELabELN Solution unique?

The LabLynx ELabELN Solution is a comprehensive solution designed to streamline data management and collaboration in scientific research. It offers unique features tailored to modern laboratory needs. You will find that much of what makes our solution unique is also available in other ELN solutions, but there is none that provides all of these capabilities and provides for an open ecosystem of add-ons that makes our solution virtually limitless.



Collaborative Capabilities

Share projects, notebooks, and experimental entries, facilitating seamless collaboration.

Customizable Templates

Create and implement custom templates suited to your specific workflows.

Advanced Data Management

Powerful data organization tools, including tagging, filtering, and cross-linking entries across projects.

Open APIs and Extensibility

Integrate seamlessly with other software and platforms, ensuring compatibility with existing IT infrastructures.

Robust Data Security

Data integrity and security through encrypted storage, role-based access controls.

Cross-Platform Accessibility

Accessibility from various devices, including desktops, tablets, and smartphones.

Scalability for Any Sized Team

Plans and features that cater to both small teams and enterprise-level organizations.

Inventory Management

Manage samples, reagents, and lab resources directly within the platform.

Regulatory Compliance

Compliance-ready framework includes timestamps, electronic signatures, audit trails, and user authentication and permissions.

Professional Services Available

Including implementation & configuration, workflow design, instrument integration, validation support, data migration, additional training automation & customization, plus ongoing technical support.



What is the ELabELN Solution for Academic Research?

In recognition of the important work colleges and universities do in research that supports both student learning and the advancement of knowledge in all areas of science, LabLynx has introduced the LabLynx ELabELN Solution for Academic Research. The LabLynx ELabELN Solution for Academic Research gives colleges, universities, and research institutions a secure, collaborative platform for managing research, documentation, compliance, workflows, and data—all within a cloud-hosted digital ecosystem designed for modern science and education.

Whether supporting undergraduate teaching labs, graduate research, or advanced multi-department programs, ELabELN helps researchers and students work more efficiently, improve reproducibility, and accelerate discovery.

Transform Your Lab into a Connected Digital Research Environment

An ELN is a major step beyond paper notebooks and spreadsheets, making it easier to document methods, manage SOPs, store results, improve collaboration, and protect data integrity.

The LabLynx ELabELN Suite for Academic Research goes further by combining a cloud-hosted ELN with file management, instrument and data integrations, reporting, analytics, and optional AI-enhanced tools in one managed platform. For colleges and universities, this creates a connected digital research infrastructure where people, processes, instruments, and data work together seamlessly.

The result is a more efficient, collaborative, and reproducible research environment built for modern academic science.



Why Academic Labs Choose the ELabELN Solution

One Connected Research Platform:

Manage experiments, data, files, reporting, workflows, and collaboration in a single integrated environment.

Result: Less fragmentation, fewer errors, and more productive research.

Improved Research Integrity & Reproducibility:

Version control, audit trails, standardized templates, and structured documentation help ensure reliable, reproducible science.

Result: Better publications, easier peer review, and stronger research outcomes.

Instrument & Data Integration:

Optional LabVia integrations connect instruments and external systems directly to ELabELN.

Result: Automated data capture, reduced manual entry, and faster analysis.

Centralized, Secure Data Management:

Store research data, SOPs, notes, reports, and files in a secure, searchable environment with managed access controls.

Result: Faster retrieval, improved collaboration, and stronger governance.

Designed for Collaboration & Teaching:

Enable real-time collaboration between students, researchers, and faculty with optional AI- assisted learning and research support.

Result: Better training, guided learning, and modern digital lab experiences.

Analytics & Reporting with Optional LabVista:

The optional LabVista reporting and analytics tool provides trend analysis, reporting dashboards, publication-ready figures, and more.

Result: Turn research data into actionable insights faster.

Optional AI capabilities:

The optional AI capabilities could include experiment summarization, protocol generation, documentation support, literature review assistance, workflow automation, and more.

Result: Faster workflows and improved researcher productivity.

Service and Support:

We don't leave you on your own with the ELN. We're there to collaborate with you as you learn the system and get it set up for your own unique workflows and purposes. We'll take care of all of the IT for you in our secure, reliable AWS cloud-hosted environments with full backups and 99% up-time guarantee.

Result: Increased self-direction, flexibility and future-proofing.

The LabLynx ELabELN Solution for Academic Labs

Whether your focus is primarily on teaching, advanced cutting edge research or something in between, the LabLynx ELabELN Solution brings you the data management components you need to be relevant in the modern world of research—at a price that is affordable to academic budgets.

Two Editions Designed for Academic Needs



Standard Edition:

Unlimited Users · ELN Platform

If you're doing undergrad, small-scale research or need a system primarily for teaching, then the Standard Edition is for right for you! The standard edition is full featured, with the focus on open collaboration and sharing. Provides students with hands-on experience using modern laboratory informatics tools while helping research teams improve organization, consistency, and accessibility. Includes access to the Journal of Academic Research publications, a library of LabLynx guides, videos and other materials, and US-based support team.



Professional Edition:

Unlimited Users · Full ELabELN Suite of Apps & Options

The ELabELN Suite Edition has all of the benefits and features of the Standard Edition, plus the enterprise features necessary to provide secure, compliant data management for the more enterprise-level research needs of closed research group projects. It gives you more independent control, and allows for on-premise installation as well as dedicated secure cloud hosting. It also allows for consulting, implementation, customization and dedicated support services, including options for our LabVista reporting and analytics tool, LabDrive file storage and management and additional options.

Who Benefits?

- **Researchers & Principal Investigators:** Accelerate research, improve reproducibility, & simplify collaboration.
- **Students:** Gain experience using modern digital laboratory systems and workflows.
- **Lab Managers:** Improve operational efficiency, standardization, and oversight.
- **IT & Administration:** Deploy secure, scalable infrastructure without extensive internal support requirements.



The LabLynx ELabELN Solution is more than an electronic lab notebook—it's a connected digital research ecosystem that helps academic institutions modernize research, improve collaboration, and prepare students and researchers for the future of science.

*Accelerate discovery. Improve reproducibility.
Simplify research operations. Empower modern academic science.*



Get Started

with the LabLynx ELabELN Suite

ELabELN Solution

STEP 1: Contact us to get started

Fill out a **contact form** on our website or simply **email us** at sales@lablynx.com. We will promptly reply and schedule a meeting to learn about your lab and what you are looking for and answer any questions you have for us. We will also show you a high-level demonstration of the ELabELN Solution options. Everything is always documented—meetings are recorded and also AI-transcribed.

STEP 2: Get a LabLynx tailored demo and try out LabLynx ELabELN with full support

If you would like, we can schedule an **in-depth demonstration** of our proposed solution that is tailored specifically for you based on our first meeting and any examples you share. We can also provide you with “sandbox” access to that tailored demo ELabELN, with absolutely no obligation to purchase. You can try out the ELabELN so that you can be absolutely sure it will work for your needs. Our team will support you during that trial, helping you learn how to set up experiments, resources and schedules, assign role-based access to your team and much more.

STEP 3: Order your LabLynx solution when you are ready

You can **begin your subscription** with your own ELabELN Solution (and any other add-ons you like) right away, with no costs for the setup/configuration that we’ve already done together. Use the same system you have tailored to your processes and preferences.

STEP 4: Set up your Lab for success and go live!

If there are any additional setup items, or integrations, customizations, additional apps, etc., we can provide hourly services as you request them—either initially or any time you want! **Our goal is the same as yours:** to get your system live and operational—the way you want it—quickly and affordably.



TECHNICAL DATA IS SUBJECT
TO CHANGE WITHOUT NOTICE.

REVISION DATE: 2026-05-18

LabLynx, Inc. is a global provider of Laboratory Informatics Solutions for all types of laboratories. Our focus is on delivering lab data management solutions that fit your lab's technical, functional, business and scientific workflow requirements. For more information visit www.lablynx.com or email sales@lablynx.com or call 866-522-5969.

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Node-RED source code and license: <https://github.com/node-red/node-red>

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